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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/807,399	03/24/2004	Yoichi Yamada	Q80518	3516
23373	7590 12/02/2005		EXAMINER	
SUGHRUE N	MION, PLLC YLVANIA AVENUE, N	SMITH, RICHARD A		
SUITE 800	LVANIA AVENUE, N	. • • • • • • • • • • • • • • • • • • •	ART UNIT	PAPER NUMBER
WASHINGTO	N, DC 20037		2859	

DATE MAILED: 12/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	-
	10/807,399	YAMADA ET AL.	
Office Action Summary	Examiner	Art Unit	
	R. Alexander Smith	2859	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence addre	ss
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from (6), cause the application to become ABANDON	ON. timely filed m the mailing date of this comm IED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on 14 S 2a)⊠ This action is FINAL. 2b)□ This 3)□ Since this application is in condition for alloward closed in accordance with the practice under B	s action is non-final. nce except for formal matters, p		erits is
Disposition of Claims			
4) ⊠ Claim(s) 1-26 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ⊠ Claim(s) 11 and 14-26 is/are allowed. 6) ⊠ Claim(s) 1,3-5,9,12 and 13 is/are rejected. 7) ⊠ Claim(s) 2,6-8 and 10 is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	cepted or b) objected to by the drawing(s) be held in abeyance. Setion is required if the drawing(s) is c	ee 37 CFR 1.85(a). objected to. See 37 CFR	
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document * See the attached detailed Office action for a list 	ts have been received. ts have been received in Applica prity documents have been recei nu (PCT Rule 17.2(a)).	ation No ved in this National Sta	age
Attachment(s)	4) 🔲 Interview Summa	nn (PTO-413)	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	Paper No(s)/Mail		52)

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 3-5, 9 and 12 are finally rejected under 35 U.S.C. 102(b) as being anticipated by U.S. 5,587,783 to Nakamura et al.

Nakamura discloses the limitations of claims 1, 3-5, 9 and 12 when:

The image forming apparatus is the preferred embodiment 2 wherein the cylinders 104a-104d (figure 10) break apart the toner, and the toner remainder sensor 103 detects the toner in the second hopper 67b as described for embodiment 2. In particular see column 19, line 1 through column 20, line 32 wherein the control unit 81 holds the signal from the sensor 103 *until the image forming action is over and then rotates* the image forming unit group, i.e., the rotating body with a plurality of developer containers. Column 19, lines 19+ describes monochromatic output, the moving of the group by one revolution, and the repositioning of the unit at position 86 to another position such as at 102M in figure 9, and rotation by half revolution after rotating

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the group by one revolution so that the unit may be located at position 86 allowing the sensor 103 to recheck the toner. The above appears to meet the limitations of claim 1 including the last two lines of the claim.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 1, 3-5, 9 and 12 are finally rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. 5,587,783 to Nakamura et al.

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Nakamura discloses the limitations of claims 1, 3-5, 9 and 12 when:

The image forming apparatus is the preferred embodiment 2 wherein the cylinders 104a-104d (figure 10) break apart the toner, and the toner remainder sensor 103 detects the toner in the second hopper 67b as described for embodiment 2. In particular see column 19, line 1 through column 20, line 32 wherein the control unit 81 holds the signal from the sensor 103 *until the image forming action is over and then rotates* the image forming unit group, i.e., the rotating body with a plurality of developer containers. Column 19, lines 19+ describes monochromatic output, the moving of the group by one revolution, and the repositioning of the unit at position 86 to another position such as at 102M in figure 9, and rotation by half revolution after rotating the group by one revolution so that the unit may be located at position 86 allowing the sensor 103 to recheck the toner.

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Furthermore, column 19, line 46 through column 20, line 32 describes the rotation including one revolution at other times and in other situations to address toner coagulation. Therefore, it appears to the examiner that it would be obvious to one of ordinary skill in the art at the time of the invention to have rotation at the start and/or at the end of continuous formation as an obvious modification of the operation, taught by Nakamura et al., to assure that the toner does not coagulate based on the environmental conditions encountered at the location (column 5, lines 15-20).

5. Claim 13 is finally rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura et al. in view of U.S. 6,324,352 to Suzuki.

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Nakamura et al. teaches all that is claimed as discussed in the above 102(b) rejection of claims 1, 3-5, 9 and 12 except for a computer and a display device connected to the computer.

Suzuki discloses an image forming system having a computer and a display device (figure 4). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the image forming system, taught by Nakamura et al., to include a computer and a display, as suggested by Suzuki, in order to allow a user to control and monitor the status of the image forming system.

Response to Arguments

6. Applicant's arguments filed September 14, 2005 with respect to claims 1, 3-5, 9, 12 and 13 have been considered but are moot in view of the new ground(s) of rejection or combinations based thereon.

Allowable Subject Matter

7. Claims 11 and 14-26 are allowable.

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8. Claims 2, 6-8 and 10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten to include all of the limitations of the base claim and any intervening claims.

9. As allowable subject matter has been indicated, applicant's reply must either comply with all formal requirements or specifically traverse each requirement not complied with. See 37 CFR 1.111(b) and MPEP § 707.07(a).

Conclusion

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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The prior art made of record and not relied upon is considered pertinent to Applicant's 11.

disclosure. The prior art cited in PTO-892 and not mentioned above disclose related apparatus.

Any inquiry concerning this communication or earlier communications from the 12.

examiner should be directed to R. Alexander Smith whose telephone number is 571-272-2251.

The examiner can normally be reached on Monday through Friday from 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Diego F. Gutierrez can be reached on 571-272-2245. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

R. Alexander Smith Primary Examiner

Technology Center 2800

November 23, 2005

RAS